

What is claimed is:

1. A water-cooled vertical engine comprising:

a crankshaft disposed substantially vertically;

a camshaft; and

an endless transmission member for transmitting a driving force of the crankshaft to the camshaft, the endless transmission member being disposed in an upper part of the engine;

wherein the engine further comprises:

a water jacket formed therein; and

a thermostat for controlling the flow of cooling water in the water jacket, the thermostat being provided in the upper part of the engine above the endless transmission member.

2. The water-cooled vertical engine according to Claim 1, wherein the endless transmission member is a timing chain, and the upper part of the engine comprises a chain cover for covering the timing chain in cooperation with a cylinder head and a cylinder block.

3. An outboard motor equipped with a water-cooled vertical engine, comprising:

a crankshaft disposed substantially vertically;

a camshaft; and

an endless transmission member for transmitting a driving force of the crankshaft to the camshaft, the endless transmission member being disposed in an upper part of the engine;

wherein the engine further comprises:

a water jacket formed therein; and

a thermostat for controlling the flow of cooling water in the water jacket, the

thermostat being provided in an upper wall of the engine above the endless transmission member.

4. A water-cooled vertical engine comprising:

a crankshaft disposed substantially vertically;

a camshaft;

an engine block;

a cover;

an endless transmission member housing chamber formed by joining the cover to an upper face of the engine block; and

an endless transmission member for transmitting a driving force of the crankshaft to the camshaft, the endless transmission member being disposed within the endless transmission member housing chamber;

wherein the engine further comprises:

a water jacket formed in the engine block;

a thermostat for controlling the flow of cooling water in the water jacket, the thermostat being provided in the cover; and

a cooling water passage for providing communication between the water jacket and the thermostat, the cooling water passage being integrally formed with the cover.

5. The water-cooled vertical engine according to Claim 4, wherein it further comprises a drain pipe for discharging cooling water from the thermostat, the drain pipe being a member that is separate from the cover.

6. An outboard motor equipped with a water-cooled vertical engine comprising:

a crankshaft disposed substantially vertically;

a camshaft;

an engine block;

a cover;

an endless transmission member housing chamber formed by joining the cover to an upper face of the engine block; and

an endless transmission member for transmitting a driving force of the crankshaft to the camshaft, the endless transmission member being disposed within the endless transmission member housing chamber;

wherein the engine further comprises:

a water jacket formed in the engine block;

a thermostat for controlling the flow of cooling water in the water jacket, the thermostat being provided in the cover; and

a cooling water passage for providing communication between the water jacket and the thermostat, the cooling water passage being integrally formed with the cover.

7. A water-cooled vertical engine comprising:

a crankshaft disposed substantially vertically;

a cylinder block;

a cylinder block cooling water jacket formed in the cylinder block;

a first thermostat for controlling the flow of cooling water in the cylinder block cooling water jacket;

a cylinder head;

a cylinder head cooling water jacket formed in the cylinder head; and

a second thermostat for controlling the flow of cooling water in the cylinder head cooling water jacket;

wherein the cylinder block cooling water jacket has a cooling water outlet connected to the first thermostat, the cylinder head cooling water jacket has a cooling water outlet connected to the second thermostat, the cooling water outlets being in

proximity to each other; and

wherein the engine further comprises:

a thermostat chamber housing the first and second thermostats therewithin; and

a member for forming the thermostat chamber, the member being joined to the cylinder block and the cylinder head which have the two cooling water outlets.

8. The water-cooled vertical engine according to Claim 7, wherein it further comprises a camshaft, an engine block, and an endless transmission member for transmitting a driving force of the crankshaft to the camshaft, the endless transmission member being disposed in an upper part of the engine block, the first and second thermostats being disposed on the inside of the endless transmission member.

9. The water-cooled vertical engine according to Claim 7, wherein the first and second thermostats have a common cooling water drain part.

10. An outboard motor equipped with a water-cooled vertical engine comprising:

a crankshaft disposed substantially vertically;

a cylinder block;

a cylinder block cooling water jacket formed in the cylinder block;

a first thermostat for controlling the flow of cooling water in the cylinder block cooling water jacket;

a cylinder head;

a cylinder head cooling water jacket formed in the cylinder head; and

a second thermostat for controlling the flow of cooling water in the cylinder head cooling water jacket;

wherein the cylinder block cooling water jacket has a cooling water outlet connected to the first thermostat, the cylinder head cooling water jacket has a cooling

water outlet connected to the second thermostat, the cooling water outlets being in proximity to each other; and

wherein the engine further comprises:

a thermostat chamber housing the first and second thermostats therewithin; and

a member for forming the thermostat chamber, the member being joined to the cylinder block and the cylinder head which have the two cooling water outlets.